# **Chemistry Report for Case # P-19-0140**

### General

Submitter:	
Contact:	Contact Telephone No.:
TS No.: AB80KB	
Chemist: D Lin	Contractor Support: Y
PV Init (kg/yr):	PV Max (kg/yr):
Binding Option:	Exposure-Based Review:
Manufacture:	Import:
Chemical Name  Trade Name:  IES Order:439408-3  Generic Name:Perfluorodiox	gaalkyl vinyl ether
Chemical Structure	

# **Physical Chemical Properties**

Molecular Formula:	Molecular Weight:
% < 500:	% < 1000:
MP:	MP Estimate:
BP:	BP Pressure:
BP Estimate:	
VP (Torr):	VP Estimate (Torr):
Water Solubility (g/L):	Water Soluble Estimate (g/L):
Log P:	Log P Estimate:
Physical State — Neat:	Physical State — Manuf:
Physical State _ Processing: NA	

Physical State — Processing: NA	
Physical State — End Use: Destroyed	

### **Additional Chemical Info**

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Submitted Data:

(OECD 103); VP = torr at  oC, torr at  oC, torr at  oC; WS < g/L

(OECD 105, limit of quantitation); log P = (Sub.Est, EPI); flash pt. = oC; surface tension = mN/m; autoignition temp. = oC; density = g/cm3.

Literature Data [STN eProp]: BP = 66°C at 760 torr.

Estimated Data [EPI with MP = -80°C, BP = 73.5°C, VP = 108 torr, ws = 0.00656 g/L; log P = 4.50.

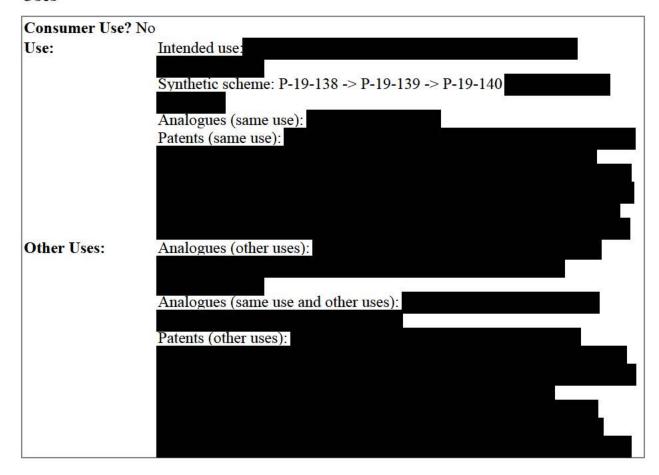
Estimated Data [STN/ACD Labs]: BP = 107.1°C; VP = 32 torr; WS = 250 g/L; log P = 8.035.

This estimated WS above is not credible, given the OECD 105 study showing a measured WS < 0.061 g/L. Likewise, the above estimated log P is too high, given that the corresponding estimated WS is 250 g/L.

Note about partition coefficient study done according to OECD 107 (shake flask method):

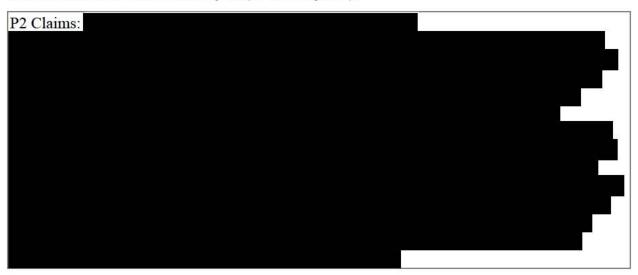
The study authors observed that the PMN substance reacted over time when stirred in
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#### Uses



## **Reaction Description**

## Pollution Prevention Analysis(P2 Analysis:)



### Analogs

### **Comments/Telephone Log**

Artifact	Update/Upload Time
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